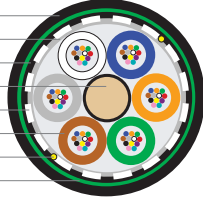


ExpressLT™ Gel

Gel-Filled Loose Tube Cable (2.5mm)



MDPE Outer Jacket
Water Blocking Tape
MDPE Inner Jacket (Double Jacket Designs Only)
Central Strength Member
Outer Strength Members (where applicable)
Gel-Filled Buffer Tube Containing up to 12 Fibers
Ripcord
ezPREP® Corrugated Steel Armor (optional)



OVERVIEW

Prysmian's popular ExpressLT™ cable combines gel-filled buffer tubes with enhanced flexibility, a dry water-blocked core, and optional ezPREP® armor. The buffer tubes are also rated for mid-span storage applications. This combination of features makes ExpressLT™ an ideal solution for applications requiring frequent sheath access and express tube storage.

SPECIFICATIONS / RATINGS

Applications	Multi-purpose outdoor, aerial lashed, duct, direct buried (when armored)
Constructions	Dielectric, armored, double armored, dual jacket
Fiber Count	4 to 432 fibers in color-coded buffer tubes
Fiber Types	Single-mode, multimode, bend-insensitive, NZDS
Options	Steel central member, 24 AWG copper pair, 16 AWG tonewire, striped jacket, factory-installed pulling eye
Similar Alternatives	Dry buffer tubes / LT 2.0 / heavy duty / central / indoor-outdoor / indoor / self-support / microduct
Standards	Tested in accordance with TIA 455 series FOTPs for fiber optic cables. Complies with ICEA 640, RUS 7 CFR 1755 (PE90 listed), Telcordia GR-20, and IEC 60794-3-11
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



FEATURES AND BENEFITS

Easy Cable Entry and Preparation

- Dry water-blocked core speeds cable access
- Available with ezPREP® armor to allow easy access to the core in mid-sheath entries
- Reverse oscillating stranded core facilitates mid-span access of fibers. Tubes can easily be removed from the core
- Ripcord speeds cable entry & outer jacket removal

Available with ezPREP® Armor

- The jacket can be easily separated from the armor without a heat gun or torch
- Armored cable access, bonding and grounding are faster, easier and safer

Flexible Routing and Termination

- Buffer tubes can be stored in FTTx pedestals, closures and cabinets in lengths up to 20'
- 2.5 mm buffer tubes with enhanced flexibility simplify routing & splice preparation

Multi-Purpose Design

- Suitable for aerial lashed, duct, and direct buried installation (when armored)
- Small diameter and light weight, extends reel and installation lengths
- Proven water-blocking with swellable core elements and gel-filled buffer tubes
- Optional ezPREP® corrugated steel tape armor provides mechanical protection and rodent resistance



Dielectric (Non-Armored) (ETH1JKT)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1JKT-12-AA-006-BB	XX0064M1A-DWB	5	0.40	10.1	46	69	8	20	4	10	59,054	18,000
	12	ETH1JKT-12-AA-012-BB	XX0124M1A-DWB											
	24	ETH1JKT-12-AA-024-BB	XX0244M1A-DWB											
	36	ETH1JKT-12-AA-036-BB	XX0364M1A-DWB											
	48	ETH1JKT-12-AA-048-BB	XX0484M1A-DWB											
72	72	ETH1JKT-12-AA-072-BB	XX0724M1A-DWB	6	0.43	10.9	55	81	8	22	4	11	59,054	18,000
84 to 96	96	ETH1JKT-12-AA-096-BB	XX0964M1A-DWB	8	0.47	12.0	71	105	10	25	5	13	59,054	18,000
108 to 120	120	ETH1JKT-12-AA-120-BB	XX1204M1A-DWB	10	0.54	13.7	88	131	11	28	6	14	59,054	18,000
132 to 144	144	ETH1JKT-12-AA-144-BB	XX1444M1A-DWB	12	0.61	15.5	117	174	13	32	6	16	48,528	14,792
156 to 216	216	ETH1JKT-12-AA-216-BB	XX2164M1A-DWB	18	0.61	15.5	120	179	13	32	6	16	48,528	14,792
228 to 264	264	ETH1JKT-12-AA-264-BB	XX2644M1A-DWB	22	0.68	17.3	143	212	14	35	7	17	41,010	12,500
276 to 288	288	ETH1JKT-12-AA-288-BB	XX2884M1A-DWB	24	0.71	18.1	162	240	14	37	7	18	39,820	12,139
290 to 432	432	ETH1JKT-12-AA-432-BB	XX4324M1A-DWB	36	0.81	20.6	188	281	16	41	8	21	31,095	9,479

Single Jacket Armored (SP) (ETH1A1J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1A1J-12-AA-006-BB	XX0064M1F-DWB	5	0.46	11.8	92	137	9	24	5	12	59,054	18,000
	12	ETH1A1J-12-AA-012-BB	XX0124M1F-DWB											
	24	ETH1A1J-12-AA-024-BB	XX0244M1F-DWB											
	36	ETH1A1J-12-AA-036-BB	XX0364M1F-DWB											
	48	ETH1A1J-12-AA-048-BB	XX0484M1F-DWB											
72	72	ETH1A1J-12-AA-072-BB	XX0724M1F-DWB	6	0.50	12.6	101	151	10	25	5	13	59,054	18,000
84 to 96	96	ETH1A1J-12-AA-096-BB	XX0964M1F-DWB	8	0.56	14.3	130	194	11	29	6	14	59,054	18,000
108 to 120	120	ETH1A1J-12-AA-120-BB	XX1204M1F-DWB	10	0.63	15.9	155	230	12	32	6	16	48,528	14,792
132 to 144	144	ETH1A1J-12-AA-144-BB	XX1444M1F-DWB	12	0.69	17.6	188	280	14	35	7	18	41,010	12,500
156 to 216	216	ETH1A1J-12-AA-216-BB	XX2164M1F-DWB	18	0.70	17.9	188	280	14	36	7	18	41,010	12,500
228 to 264	264	ETH1A1J-12-AA-264-BB	XX2644M1F-DWB	22	0.76	19.4	210	313	15	39	8	19	35,306	10,762
276 to 288	288	ETH1A1J-12-AA-288-BB	XX2884M1F-DWB	24	0.81	20.7	230	343	16	42	8	21	29,386	8,958
290 to 432	432	ETH1A1J-12-AA-432-BB	XX4324M1F-DWB	36	0.90	23.0	277	385	18	46	9	23	24,054	7,332

Double Jacket Single Armored (PSP) (ETH1A2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH1A2J-12-AA-006-BB	XX0064H1F-DWB	5	0.53	13.5	111	165	11	27	5	14	59,054	18,000
	12	ETH1A2J-12-AA-012-BB	XX0124H1F-DWB											
	24	ETH1A2J-12-AA-024-BB	XX00244H1F-DWB											
	36	ETH1A2J-12-AA-036-BB	XX00364H1F-DWB											
	48	ETH1A2J-12-AA-048-BB	XX00484H1F-DWB											
72	72	ETH1A2J-12-AA-072-BB	XX00724H1F-DWB	6	0.55	14.0	126	187	11	28	5	14	59,054	18,000
84 to 96	96	ETH1A2J-12-AA-096-BB	XX00964H1F-DWB	8	0.61	15.5	143	212	12	31	6	16	53,510	16,310
108 to 120	120	ETH1A2J-12-AA-120-BB	XX1204H1F-DWB	10	0.67	17.1	174	259	13	34	7	17	43,104	13,139
132 to 144	144	ETH1A2J-12-AA-144-BB	XX1444H1F-DWB	12	0.74	18.9	210	312	15	38	7	19	35,816	10,918
156 to 216	216	ETH1A2J-12-AA-216-BB	XX2164H1F-DWB	18	0.76	19.2	210	312	15	38	8	19	35,688	10,879
228 to 264	264	ETH1A2J-12-AA-264-BB	XX2644H1F-DWB	22	0.80	20.4	235	349	16	41	8	20	31,446	9,586
276 to 288	288	ETH1A2J-12-AA-288-BB	XX2884H1F-DWB	24	0.86	21.8	255	380	17	44	9	22	29,088	8,867
290 to 432	432	ETH1A2J-12-AA-432-BB	XX4324H1F-DWB	36	0.94	24.0	285	424	19	48	9	24	22,400	6,828

* Where AA equals glass type and BB equals attenuation
** Where XX equals glass type

ExpressLT™ Gel

Gel-Filled Loose Tube Cable (2.5mm)



Dielectric Double Jacket (PDP) (ETHNA2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETHNA2J-12-AA-006-BB	XX0064H1A-DWB	5	0.46	11.7	68	101	9	23	5	12	41,010	12,500
	12	ETHNA2J-12-AA-012-BB	XX0124H1A-DWB											
	24	ETHNA2J-12-AA-024-BB	XX0244H1A-DWB											
	36	ETHNA2J-12-AA-036-BB	XX0364H1A-DWB											
	48	ETHNA2J-12-AA-048-BB	XX0484H1A-DWB											
72	72	ETHNA2J-12-AA-072-BB	XX0724H1A-DWB	6	0.48	12.2	78	116	10	25	5	12	41,010	12,500
84 to 96	96	ETHNA2J-12-AA-096-BB	XX0964H1A-DWB	8	0.54	13.8	97	144	11	28	5	14	41,010	12,500
108 to 120	120	ETHNA2J-12-AA-120-BB	XX1204H1A-DWB	10	0.61	15.4	121	180	12	31	6	15	41,010	12,500
132 to 144	144	ETHNA2J-12-AA-144-BB	XX1444H1A-DWB	12	0.67	17.1	145	216	13	34	7	17	41,010	12,500
156 to 216	216	ETHNA2J-12-AA-216-BB	XX2164H1A-DWB	18	0.67	17.1	154	228	13	34	7	17	41,010	12,500
228 to 264	264	ETHNA2J-12-AA-264-BB	XX2644H1A-DWB	22	0.74	18.7	179	266	15	37	7	19	36,138	11,016
276 to 288	288	ETHNA2J-12-AA-288-BB	XX2884H1A-DWB	24	0.78	19.8	200	298	16	40	8	20	33,220	10,126

Double Jacket Double Armored (SPSP) (ETH2A2J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH2A2J-12-AA-006-BB	XX0064H1S-DWB	5	0.64	16.3	186	277	13	33	6	16	41,010	12,500
	12	ETH2A2J-12-AA-012-BB	XX0124H1S-DWB											
	24	ETH2A2J-12-AA-024-BB	XX0244H1S-DWB											
	36	ETH2A2J-12-AA-036-BB	XX0364H1S-DWB											
	48	ETH2A2J-12-AA-048-BB	XX0484H1S-DWB											
72	72	ETH2A2J-12-AA-072-BB	XX0724H1S-DWB	6	0.67	17.1	198	295	13	34	7	17	41,010	12,500
84 to 96	96	ETH2A2J-12-AA-096-BB	XX0964H1S-DWB	8	0.75	19.1	231	344	15	38	8	19	35,306	10,762
108 to 120	120	ETH2A2J-12-AA-120-BB	XX1204H1S-DWB	10	0.80	20.4	265	394	16	41	8	20	31,096	9,479
132 to 144	144	ETH2A2J-12-AA-144-BB	XX1444H1S-DWB	12	0.88	22.4	325	483	18	45	9	22	25,630	7,813
156 to 216	216	ETH2A2J-12-AA-216-BB	XX2164H1S-DWB	18	0.88	22.4	317	472	18	45	9	22	25,630	7,813
228 to 264	264	ETH2A2J-12-AA-264-BB	XX2644H1S-DWB	22	0.94	23.9	353	525	19	48	9	24	22,400	6,828
276 to 288	288	ETH2A2J-12-AA-288-BB	XX2884H1S-DWB	24	0.98	24.9	384	571	20	50	10	25	20,282	6,182

Triple Jacket Double Armored (PSPSP) (ETH2A3J)

Fiber Count Range	Recommended Fiber Count	Recommended Part Number		# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*	General Cable**		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 to 60	6	ETH2A3J-12-AA-006-BB	XX0064E1S-DWB	5	0.70	17.8	218	325	14	36	7	18	40,248	12,268
	12	ETH2A3J-12-AA-012-BB	XX0124E1S-DWB											
	24	ETH2A3J-12-AA-024-BB	XX0244E1S-DWB											
	36	ETH2A3J-12-AA-036-BB	XX0364E1S-DWB											
	48	ETH2A3J-12-AA-048-BB	XX0484E1S-DWB											
72	72	ETH2A3J-12-AA-072-BB	XX0724E1S-DWB	6	0.73	18.6	232	345	15	37	7	19	35,654	10,868
84 to 96	96	ETH2A3J-12-AA-096-BB	XX0964E1S-DWB	8	0.78	19.9	270	402	16	40	8	20	31,852	9,709
108 to 120	120	ETH2A3J-12-AA-120-BB	XX1204E1S-DWB	10	0.86	21.9	320	476	17	43	9	22	27,160	8,279
132 to 144	144	ETH2A3J-12-AA-144-BB	XX1444E1S-DWB	12	0.93	23.7	379	564	19	47	9	24	22,330	6,807
156 to 216	216	ETH2A3J-12-AA-216-BB	XX2164E1S-DWB	18	0.93	23.7	379	564	19	47	9	24	22,330	6,807
228 to 264	264	ETH2A3J-12-AA-264-BB	XX2644E1S-DWB	22	0.98	25.0	417	620	20	50	10	25	20,312	6,192
276 to 288	288	ETH2A3J-12-AA-288-BB	XX2884E1S-DWB	24	1.02	26.0	446	663	20	52	10	26	18,680	5,694

* Where AA equals glass type and BB equals attenuation

** Where XX equals glass type

Installation

Maximum installation load: 600 lbf (2700 N)
Maximum operation load: 180 lbf (800 N)

Temperature Range

Shipping and Storage: -40° F to +167° F (-40° C to +75° C)
Installation: -22° F to +140° F (-30° C to +60° C)
Operation: -40° F to +158° F (-40° C to +70° C)

Mechanical Performance (per ICEA 640 and Telcordia GR20)

Minimum installation bend radius: 20 times the cable diameter
Minimum operating bend radius: 10 times the cable diameter
Short Term Compression: 220 N/cm over 10 cm (125 lb/in over 4 inches)
Long Term Compression: 110 N/cm over 10 cm (62.5 lb/in over 4 inches)
Impact Load: 4.4 Nm



Prysmian

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TLS-DS-A-102-0524

ExpressLT™ Gel

Gel-Filled Loose Tube Cable (2.5mm)



Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: ExpressLT™ gel-filled | single armor single jacket (12 fibers/tube) with 72 single-mode fibers (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	ETH	1A1J	12	HB	072	E3

PART NUMBER CONSTRUCTION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	ETH = ExpressLT™ Gel-Filled Tubes
3 CONSTRUCTION	1JKT = Single Jacket 1A1J = Single Armor, Single Jacket 1A2J = Single Armor, Dual Jacket 2A2J = Double Armor, Dual Jacket 2A3J = Double Armor, Triple Jacket NA2J = Non Armored, Dual Jacket
4 FIBER GROUPING	12 = 12f per tube

FIBER INFORMATION				
5 FIBER TYPE				
SINGLE-MODE				
HB = Single-Mode (ITU G.652 C & D) Low Water Peak				
ES = Enhanced Single-Mode (ITU G.652 C & D)				
CE = Corning™ SMF28e+ Single-Mode				
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
BU = Bend-Insensitive Single-Mode (ITU G.657.A1+ & G.652.D)				
DU = BendBright+ Single-Mode (ITU G.657.A1+ & G.652.D)				
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
LE = LEAF NZDSF (ITU G.655)				
MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
6 FIBER COUNT				
004 to 432 fibers				
7 FIBER GRADE				
SINGLE-MODE				
Attenuation (dB/km)	Wavelength (nm)	Fiber Type		
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, or CE		
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, B1, BU, DU, or B2		
N1 = 0.25	1550	LE		
MULTIMODE				
Attenuation (dB/km)	Wavelength (nm)			
M2 = 3.5/1.0	850/1300			
M3 = 3.0/1.0	850/1300			

Other cable constructions and fiber performance grades available on request.



Prysmian

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TLS-DS-A-102-0524